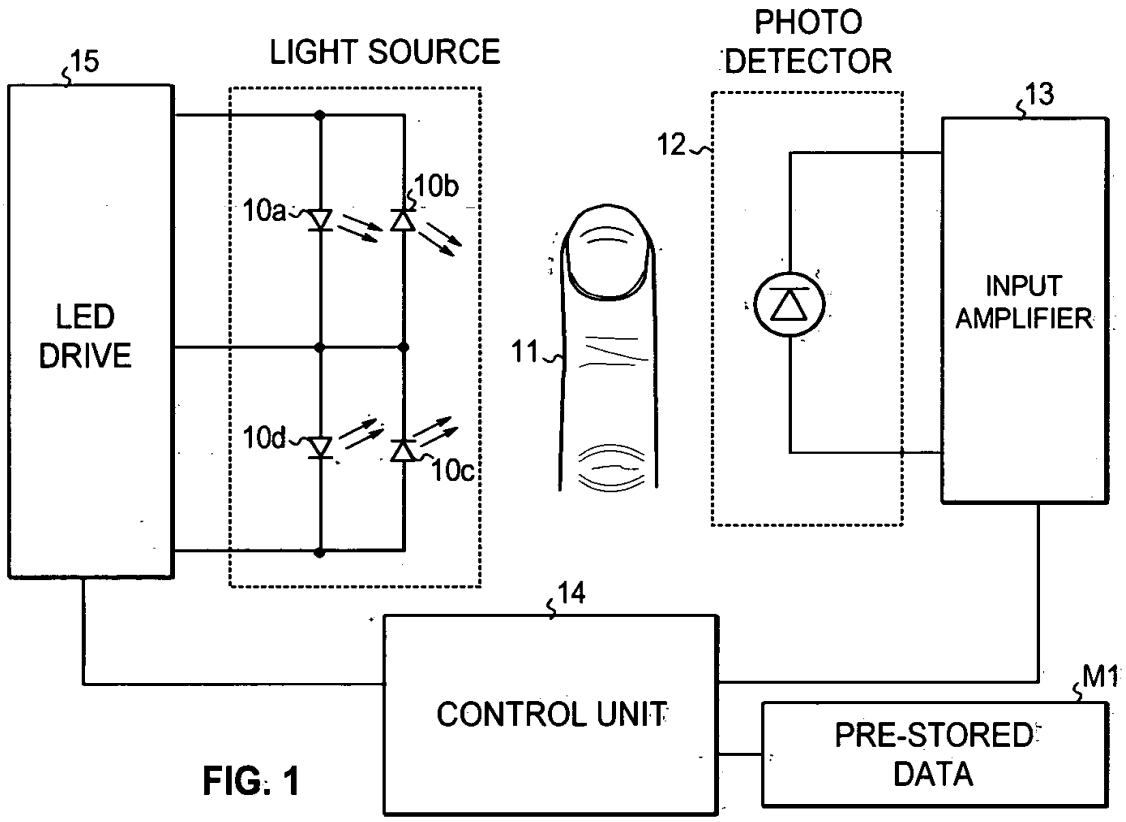


FIG. 1

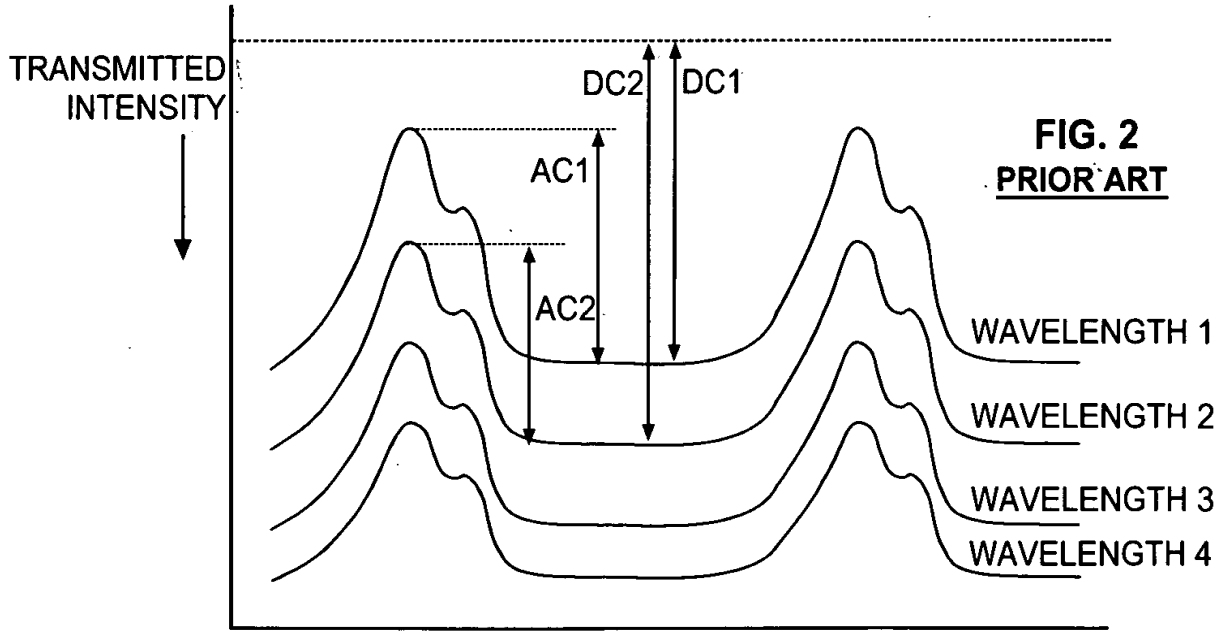


FIG. 2
PRIOR ART

09/24/2004

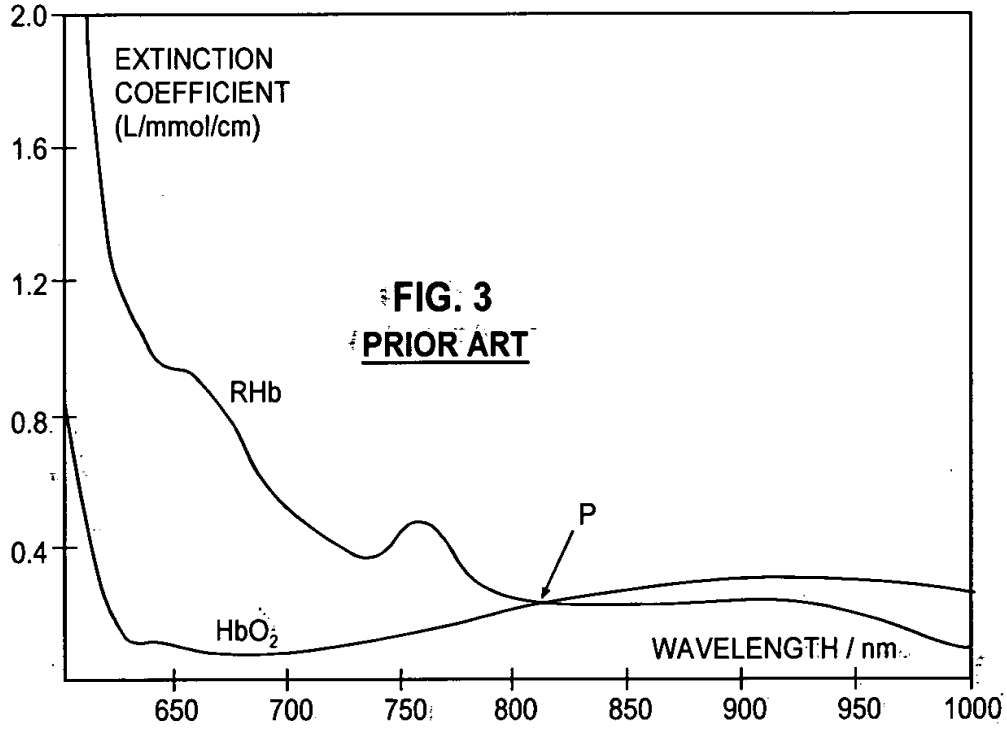


FIG. 3 PRIOR ART

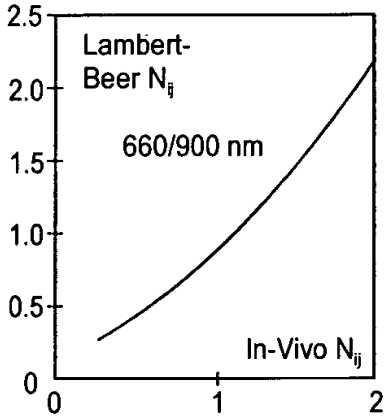


FIG. 4a PRIOR ART

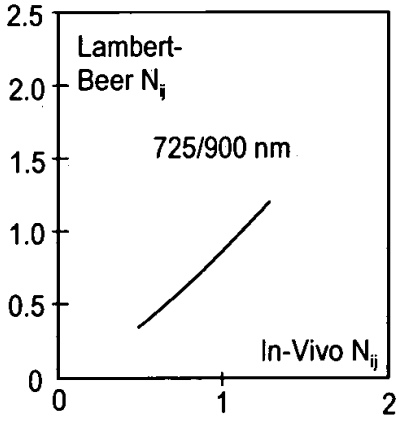


FIG. 4b PRIOR ART

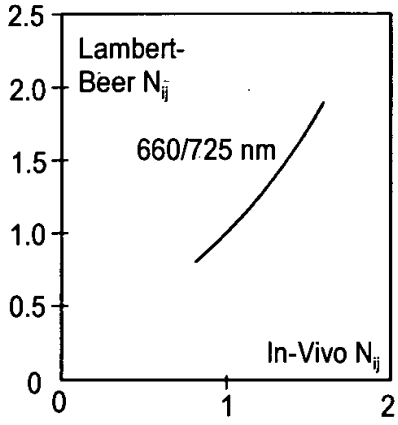


FIG. 4c PRIOR ART

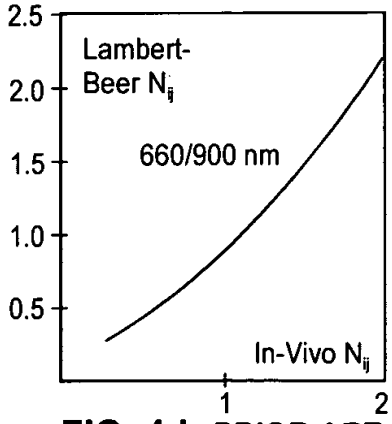


FIG. 4d PRIOR ART

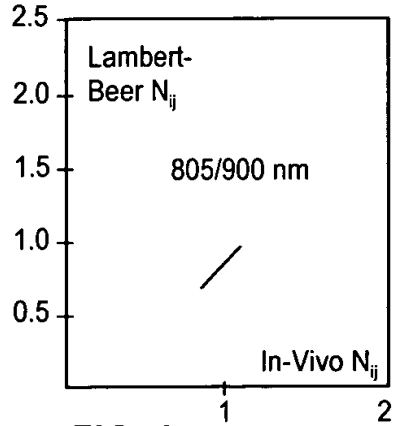


FIG. 4e PRIOR ART

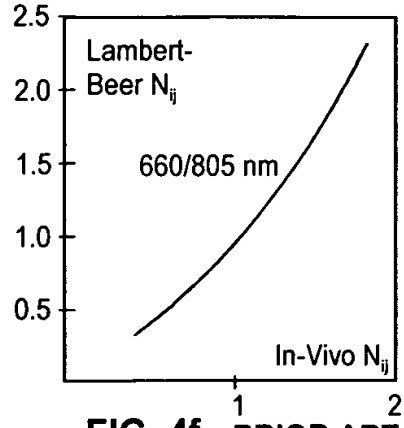


FIG. 4f PRIOR ART

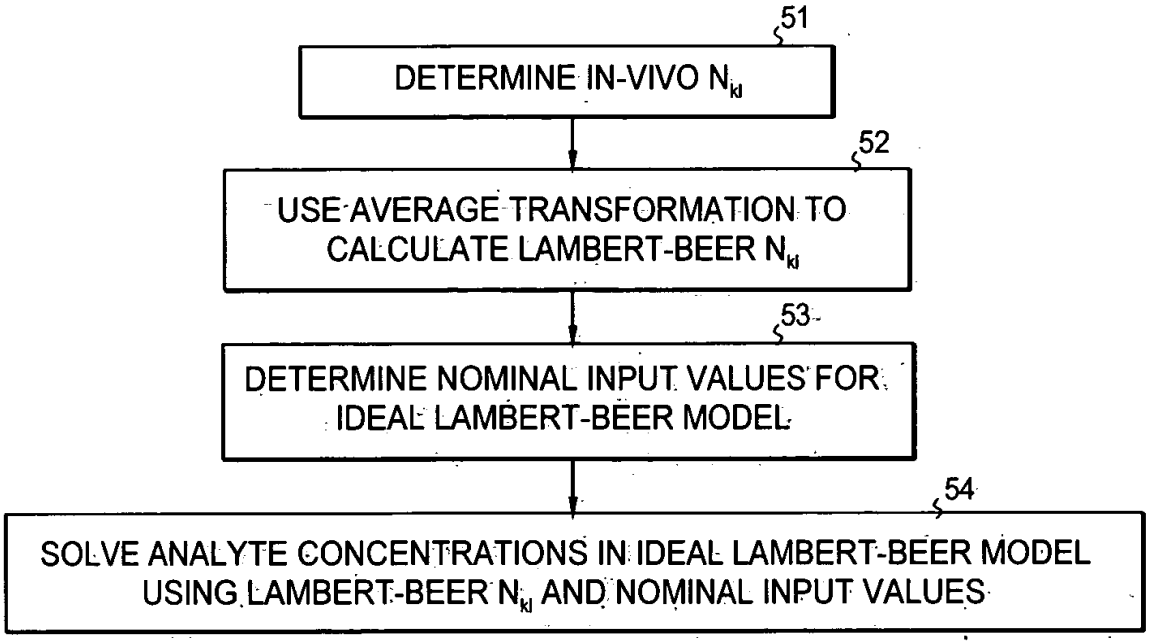


**FIG. 5** PRIOR ART

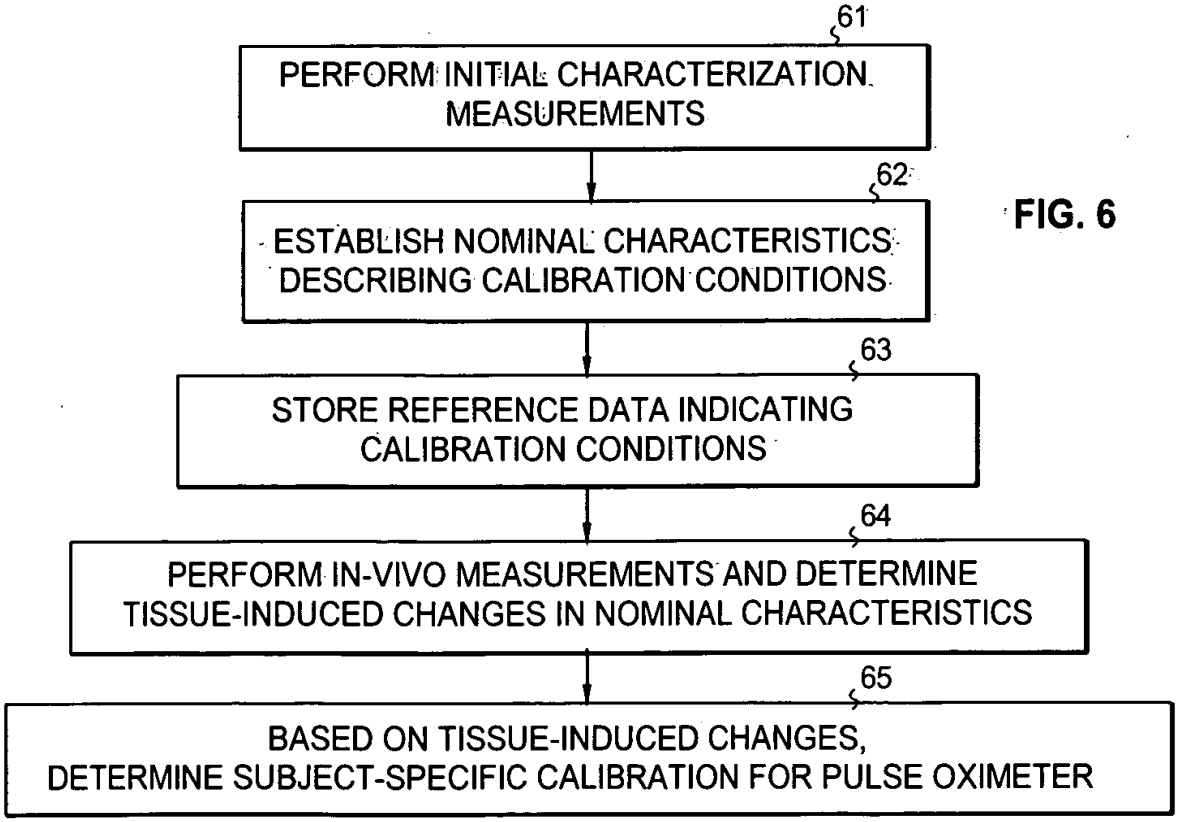


**FIG. 6**

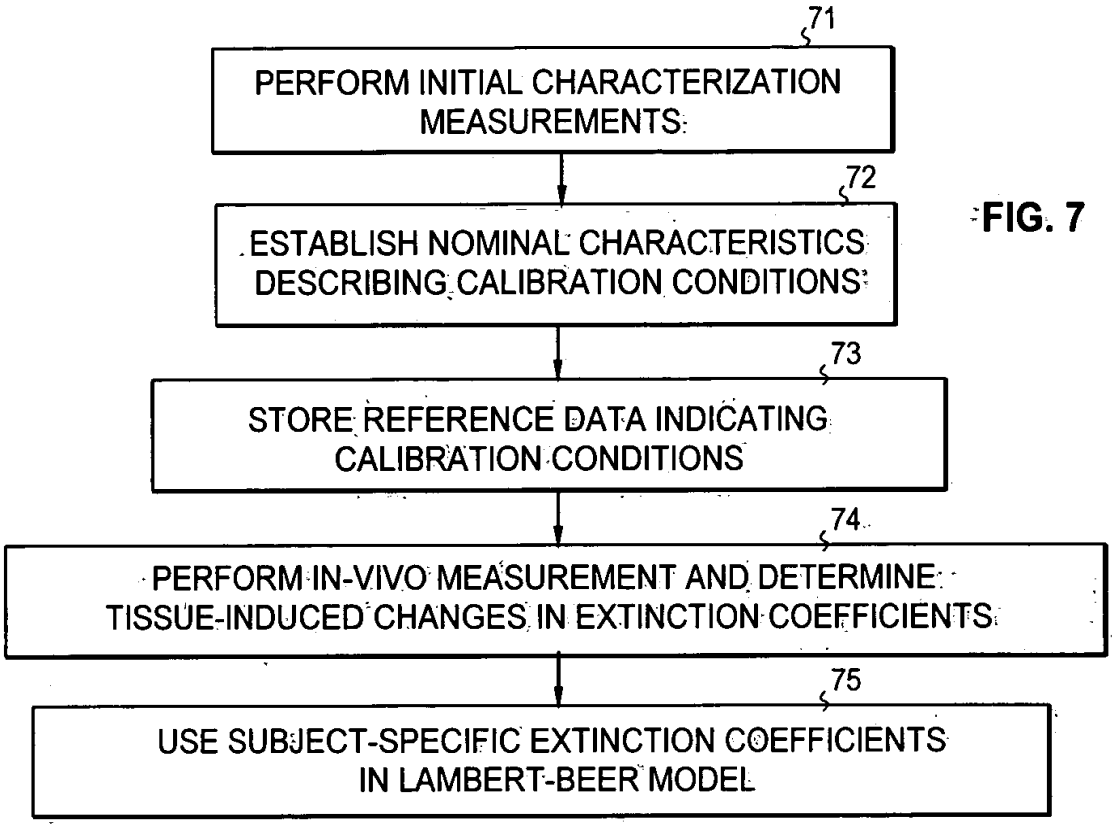
71
PERFORM INITIAL CHARACTERIZATION MEASUREMENTS
72
ESTABLISH NOMINAL CHARACTERISTICS DESCRIBING CALIBRATION CONDITIONS
73
STORE REFERENCE DATA INDICATING CALIBRATION CONDITIONS
74
PERFORM IN-VIVO MEASUREMENT AND DETERMINE TISSUE-INDUCED CHANGES IN EXTINCTION COEFFICIENTS
75
USE SUBJECT-SPECIFIC EXTINCTION COEFFICIENTS IN LAMBERT-BEER MODEL

FIG. 7

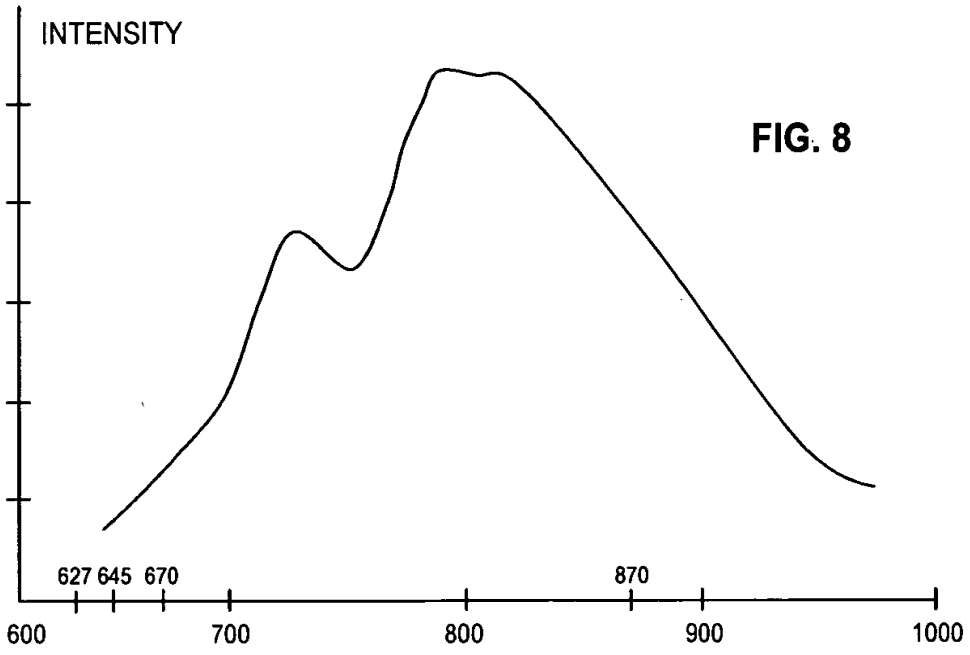
INTENSITY
627 645 670
870
600
700
800
900
1000

FIG. 8

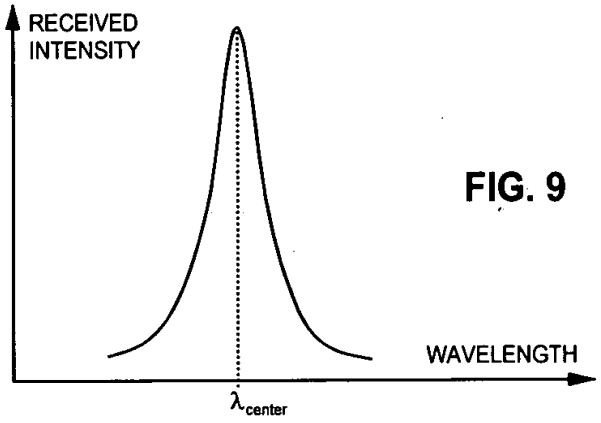
RECEIVED INTENSITY
WAVELENGTH
$\lambda_{center}$

FIG. 9

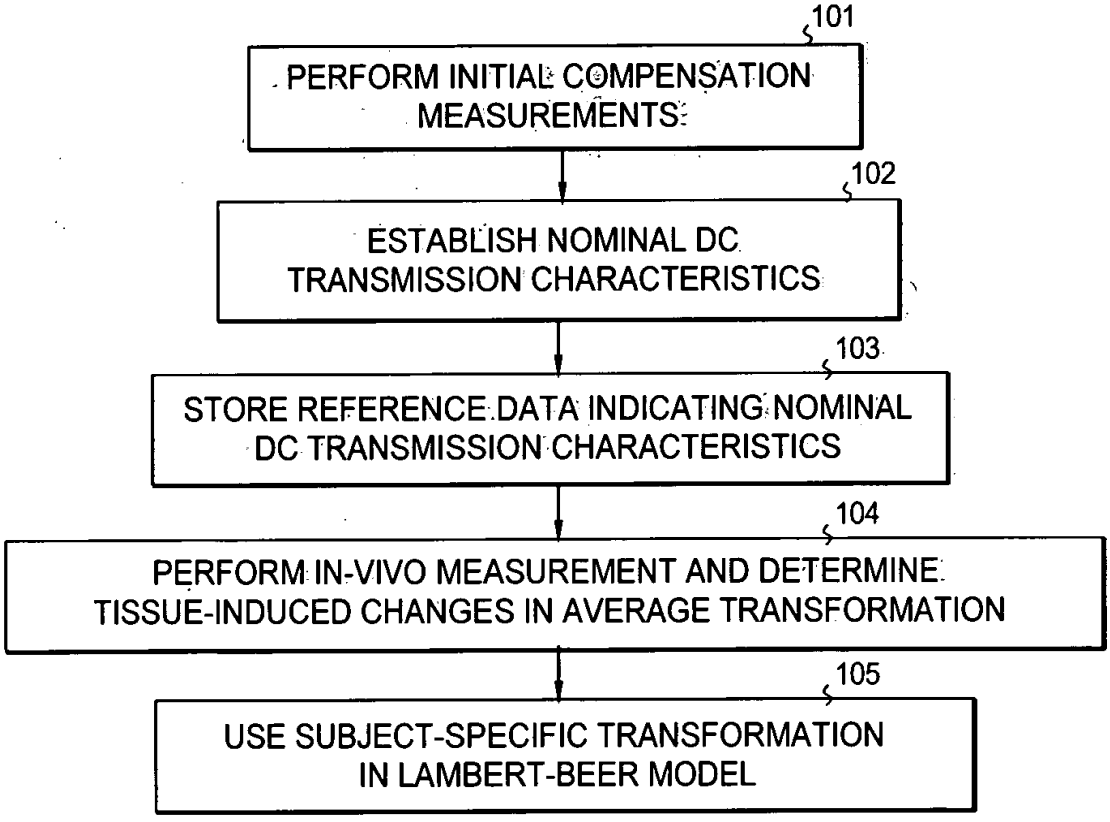
101
PERFORM INITIAL COMPENSATION MEASUREMENTS
102
ESTABLISH NOMINAL DC TRANSMISSION CHARACTERISTICS
103
STORE REFERENCE DATA INDICATING NOMINAL DC TRANSMISSION CHARACTERISTICS
104
PERFORM IN-VIVO MEASUREMENT AND DETERMINE TISSUE-INDUCED CHANGES IN AVERAGE TRANSFORMATION
105
USE SUBJECT-SPECIFIC TRANSFORMATION IN LAMBERT-BEER MODEL

FIG. 10

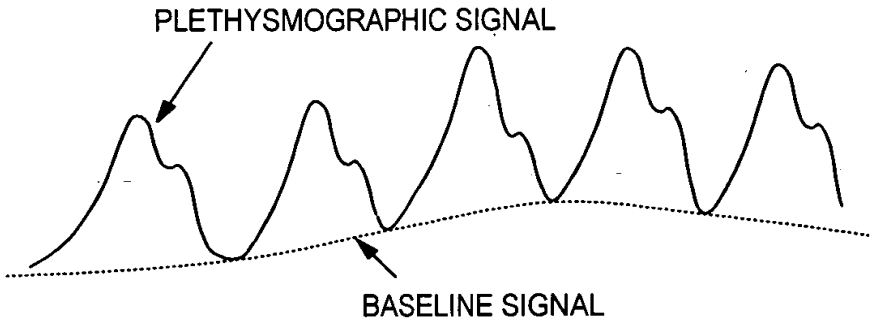


FIG. 11

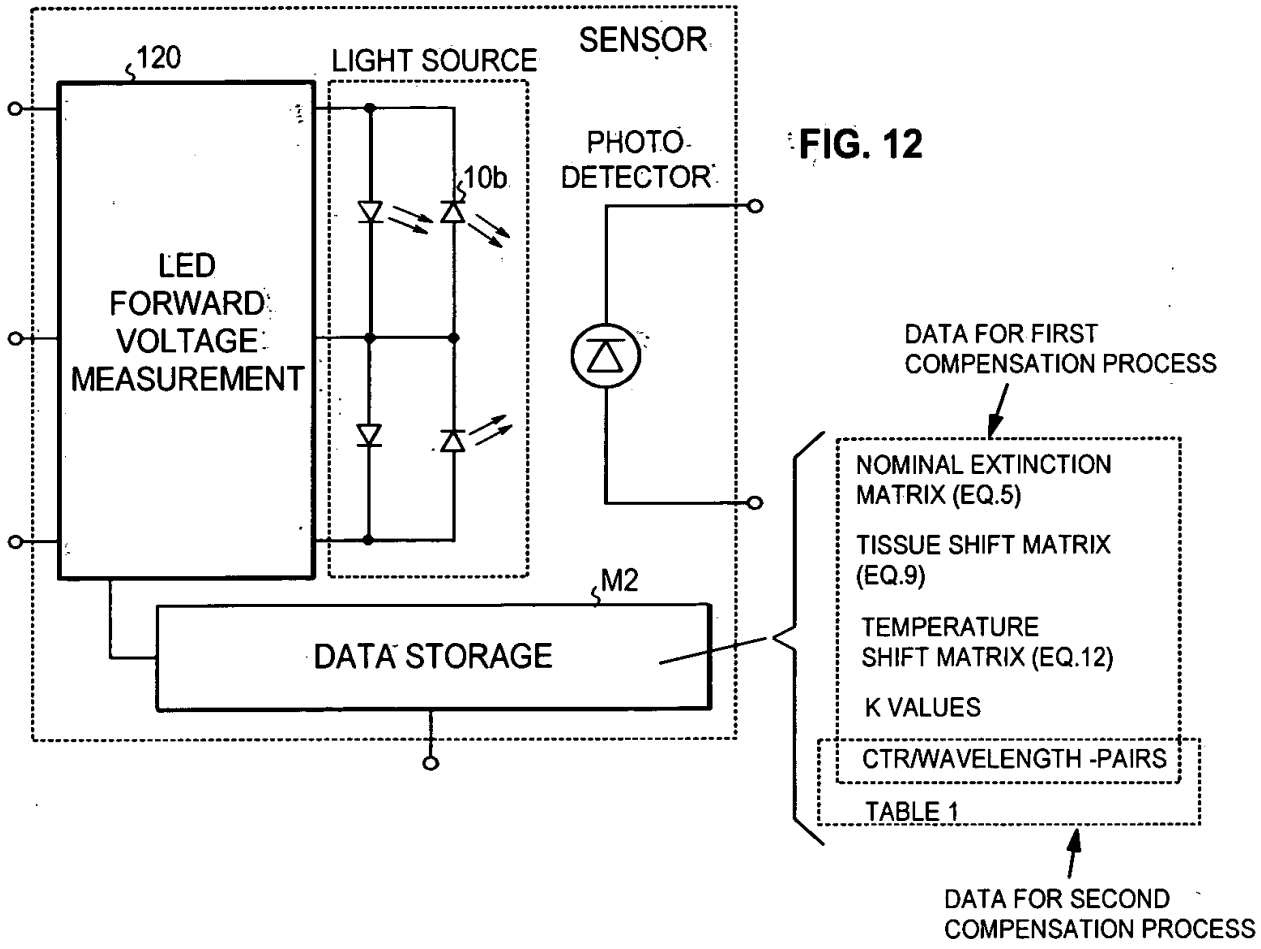


FIG. 12

Sep 15 05 12:20p